

## Patent Claims

1. Electrical component

- with an electrical connection (1, 1a, 1b) containing aluminum in its surface,

5       - in which a contact area (2) of the aluminum-containing surface has been made  
solderable.

2. Component according to claim 1,

in which a contact area (2) of the aluminum-containing surface is chemically  
10       nickel plated.

3. Component according to claim 2,

in which the nickel-plated surface is at least partially tin-plated.

15       4. Component according to one of claims 1 through 3,

in which the contact area (2) of the surface of the connection has an uneven form.

5. Component according to one of claims 1 through 4,

which is an electrolyte capacitor.

20       6. Component according to one of claims 1 through 4,

which is an electrochemical double-layer capacitor.

7. Component according to one of claims 1 through 6,  
which contains a chemically aggressive fluid.

5           8. Device containing an electrical component according to one of claims 1  
through 7,  
in which at least one connection (1) is soldered together with an electrical  
conductor (4, 5).

10           9. Device according to claim 8,  
in which a connection (1) is soldered together with a further electrical component  
(3, 3a, 3b).

            10. Device according to one of claims 8 or 9,  
15           in which the connectors (1a, 1b) of two components (3a, 3b) according to one of  
claims 1 through 7 are soldered together.

            11. Device according to one of claims 8 or 9,  
in which the connections (1a, 1b) of two components (3a, 3b) according to one of  
20           claims 1 through 7 are soldered together with one connector (4) each, which connects the  
components (3a, 3b) with one another in an electrically conductive manner.

12. Device according to claim 8,  
in which the connections (1, 1a, 1b) of one or more components (3, 3a, 3b)  
according to one of claims 1 through 7 are soldered together with a conductor plate (5).